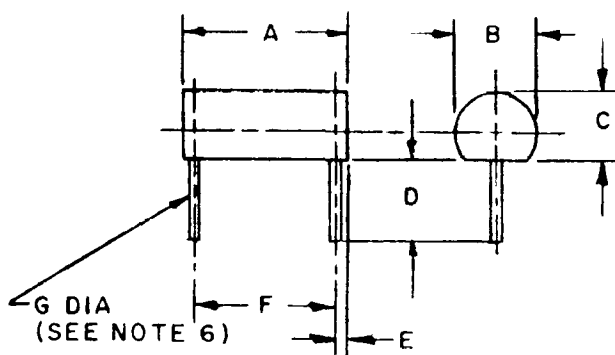


ME  
User activities: Army AS, MC, SH  
Navy  
Air Force

MI, AR  
Reviewer activities: Army OS  
Navy  
Air Force 11, 17, 80  
DLA-ES

This military standard is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

FED. SUP CLASS  
5950



Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.694 (17.63)	.756 (19.20)
B	.204 (5.18)	.266 (6.76)
C	.189 (4.80)	.251 (6.38)
D	.250 (6.35)	.374 (9.50)
E	.051 (1.30)	.071 (1.80)
F	.590 (14.99)	.610 (15.49)
G	.023 (.58)	.027 (.69)

#### RATINGS

Style	LT4
Grade	1
Class	B
Temperature rise	35° C
Ambient temperature	90° C
Operating temperature	-55° to +125° C
Dielectric withstanding Voltage (sea level)	1000 volts rms for a minimum of 60 sec.
Dielectric withstanding Voltage (reduced barometric pressure)	200 volts rms for a minimum of 60 sec.
Terminal pull	5 pounds
Altitude	70,000 feet
Weight	1.5 grams max.

THIS MILITARY STANDARD INACTIVE FOR NEW DESIGN AFTER 25 July 1983  
NO SUPERSEDING STANDARD

#### ELECTRICAL CHARACTERISTICS (INITIAL)

Dash No. 1/ 2/	Type designation	Former type designation	Superseded MS part no.	Inductance	Q min	Test freq.	Self-resonant frequency Min	DC resistance Max	Rated DC current
			MS16226	uh		MHz	MHz	Ohms	Ma
-1	LT4K200	LT7K145	-1	0.47 ±20%	50	25	250	.06	1800
-2	LT4K201	LT7K146	-2	0.68 ±20%	50	25	215	.10	1400
-3	LT4K202	LT7K147	-3	1.00 ±10%	50	25	180	.15	1150
-4	LT4K203	LT7K148	-4	1.50 ±10%	40	7.9	145	.28	850
-5	LT4K204	LT7K149	-5	2.20 ±10%	40	7.9	120	.50	625
-6	LT4K205	LT7K150	-6	2.70 ±10%	40	7.9	108	.70	525
-7	LT4K206	LT7K151	-7	3.30 ±10%	40	7.9	95	1.40	370
-8	LT4K207	LT7K152	-8	3.90 ±10%	40	7.9	90	1.50	350
-9	LT4K208	LT7K153	-9	4.70 ±10%	40	7.9	80	1.80	325

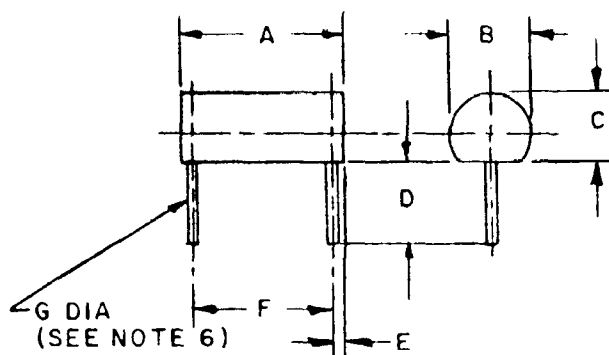
1/ The dash number added to the MS military-standard number constitutes the MS part number; for example MS18100-1.

2/ See note 11.

(D) DENOTES CHANGE

P.A. NAVY-EC Other Cust AF-85 ARMY-ER	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (phenolic core) types LT4K200 to LT4K208 incl. LT4K220 and LT4K221	MILITARY STANDARD
Procurement Specification MIL-C-15305	SUPERSEDES: 2/ MS16226(SHIPS) in part	PAGE 1 OF 3	MS 18100

APPROVED 19 SEPT 1963 REVISED 10 JUNE 1964 15 FEBRUARY 1972 22 AUGUST 1972 25 JULY 1983



Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.594 (15.09)	.656 (16.99)
B	.251 (6.38)	.313 (7.95)
C	.234 (5.94)	.296 (7.52)
D	.250 (6.35)	.374 (9.50)
E	.051 (1.30)	.071 (1.80)
F	.490 (12.50)	.510 (12.95)
G	.023 (.58)	.027 (.69)

## RATINGS

Style	LT4
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Terminal pull	5 pounds
Altitude	70,000 feet
Weight	1.8 grams max.

## ELECTRICAL CHARACTERISTICS (INITIAL)

Dash No. 1/2/	Type designation	Former type designation	Superseded MS part no.	Inductance ±10%	Q min	Test freq.	Self-resonant frequency Min	DC resistance Max	Rated DC current
				uh		MHz	MHz	Ohms	Ma
-21	LT4K220	LT7K165	MS16226-21	47	15	2.5	8.5	5.9	200
-22	LT4K221	LT7K166	MS16226-22	56	15	2.5	8.3	6.4	175

1/ The dash number added to the MS military-standard number constitutes the MS part number; for example, MS18100-1.

2/ See note 11.

P.A NAVY-EC Other Cust AF-85 ARMY-ER	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (phenolic core) types LT4K200 to LT4K208 incl; LT4K220 and LT4K221	MILITARY STANDARD MS18100
Procurement Specification MIL-C-15305	SUPERSEDES:	MS16226(SHIPS) in part	PAGE 2 OF 3

## Electrical Characteristics (Final)

Inspection Group	Allowable variation from initial measurement		Allowable % from specified minimum value in Electrical Characteristics (initial) table	
	Inductance Percent	DC resistance	Self-resonant frequency	Q
Qualification Inspection				
Group II	±2	--	--	- 10
Group III	±5	±(3%+.001ohm)	- 8	- 10
Group IV	±5	±(2%+.001ohm)	- 10	- 15
Quality Conformance Inspection				
Group C Subgroup I	±2	--	--	- 10
Subgroup II	±5	±(2%+.001ohm)	- 10	- 15
Subgroup III	±5	±(3%+.001ohm)	- 8	- 10

## NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
- These coils are intended to be mounted by the body.
- The polarizing voltage during the moisture-resistance tests is applied with the positive lead connected to the coil terminals tied together, and the negative lead connected to the metal strap.
- Terminal strength (Pull) test, is not applicable in "Group B" inspection Table VI.
- Solderable/weldable lead wire, AWG #22.
- Barometric pressure test (test condition C) is applicable.
- Shock, specified pulse, method 213, test condition I, is applicable.
- Referenced document shall be the issue in effect on date of invitation for bid.
- This standard takes precedence over the procurement specification referenced herein.
- The former MS part numbers MS18100-10 thru MS18100-20 and MS18100-23 thru MS18100-42 have been superseded as follows:  
MS18100-10 thru MS18100-20 by MS14040-1 thru MS14040-11, respectively,  
MS18100-23 thru MS18100-27 by MS14041-1 thru MS14041-5, respectively,  
MS18100-28 thru MS18100-32 by MS14042-1 thru MS14042-5, respectively,  
MS18100-33 thru MS18100-37 by MS14043-1 thru MS14043-5, respectively,  
MS18100-38 thru MS18100-42 by MS14044-1 thru MS14044-5, respectively,
- Quality Assurance Provisions:  
Qualification Inspection: Not applicable for this standard.  
Quality Conformance Inspection: Group A and B tests of MIL-C-15305 shall be applicable.

P.A. NAVY-EC	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (phenolic core) types LT4K200 to LT4K208 incl. LT4K220 and LT4K221	MILITARY STANDARD
Other Cust AF-85 ARMY-ER			MS 18100
Procurement Specification MIL-C-15305	SUPERSEDES: MS16226(SHIPS) in part		PAGE 3 of 3

DD FORM 672  
10 APR 64

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

ME  
MC, SH  
MC, SH  
Air Force 19  
User activities: Army AS, MC, SH  
Navy AS, MC, SH  
Air Force 19  
M1, AR  
OS  
Air Force 11, 17, 80  
DLA-ES

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REVISED (C) FOR CHANGES SEE PAGES 1, 2 AND 3 (D) For chgs see pgs 18, 3  
APPROVED